

HEAVY DUTY THICKNESSER

INSTRUCTION MANUAL No. 3018



INSTRUCTION MANUAL

PREFACE

IMPORTANT

IT IS OUR POLICY AND THAT OF OUR SUPPLIERS TO CONSTANTLY REVIEW THE DESIGN AND CAPACITY OF OUR PRODUCTS. WITH THIS IN MIND WE WOULD REMIND OUR CUSTOMERS THAT WHILE THE DIMENSIONS AND PERFORMANCE DATA CONTAINED HEREIN ARE CURRENT AT THE TIME OF GOING TO PRESS, IT IS POSSIBLE THAT DUE TO THE INCORPORATION OF THE LATEST DEVELOPMENTS TO ENHANCE PERFORMANCE, DIMENSIONS AND SUPPLIERS MAY VARY FROM THOSE ILLUSTRATED

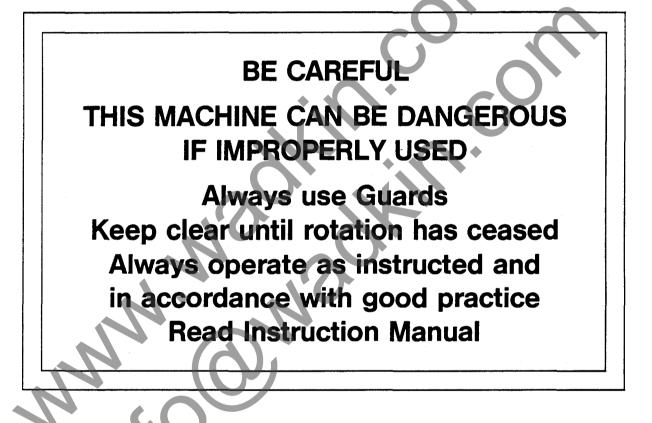
THIS MANUAL IS WRITTEN AS A GENERAL GUIDE. A TYPICAL MACHINE IS SHOWN TO ILLUSTRATE THE MAIN FEATURES.

Failure to comply with instructions in this book may invalidate the guarantee

1.0	INDEX	Page	1		
2.0	SAFETY				
2.1	Health & Safety Statement	Page	3		
2.2	Safety Instructions	Page	4		
3.0	SPECIFICATIONS	Page	5		
4.0	ASSEMBLY INSTRUCTIONS				
4.1	Standard Items Despatched with Machine	Page	6	&	
4.2	Slinging	Page		&	
4.3	Foundation	Page	7	&	
4.4	Cleaning	Page	8		
4.5	Electrical	Page	10		
4.5.1	Wiring Connections	Page			
4.5.2	Fuse Lists	Page		&	1
4.5.3	Wiring Diagrams	Page			
4.6	Dust Extraction Details	Page	11		
5.0	CONTROLS)		
5.1	Start/Stop	Page	13		
5.2	Brake Motor (Optional)	Page			
5.3	Variable Feed Speed	Page			
5.4	Power Rise & Fall	Page	13		
5.5	Digital Timber Thicknesser Indicator	Page	14		
5.6	Table Rollers	Page			
5.7	Rear Pressure Bar Setting	Page			
5.8	Motorised Knife Grinder (Optional)	Page	15		
7.0	MAINTENANCE	Page			
7.1	Feed Roller Settings	Page			
7.2	Front Pressure Bar Setting	Page			
7.3	Cutterblock Belt Tension	Page			
7.4	Feed Chain Removal	Page			
7.5	Variable Drive Belt Removal	Page			
7.6	Table Rise & Fall Belt Replacement	Page			
7.7	Feed Timing Belt Replacement	Page		&	2
7.8	Rise & Fall Chain Tension	Page			
7.9	Cutter Settings	Page		&	2
7.10	General Hints	Page			
7.11	Lubrication	Page	28	&	2
8.0	SPARES	_			
8.1	Instruction for Ordering Spare Parts	Page			
8.2	Mechanical Spares List	Page	31	tc)

•

1



HEALTH & SAFETY

SAFETY OF WOODWORKING MACHINES

Woodworking machines can be dangerous if improperly used. The wide range of work of which they are capable, requires adequate safeguarding arrangements against possible hazards.

Many injuries to machinists are caused by carelessness or failure to use the guards provided or to adjust them correctly.

Wadkin plc supply machinery designed for maximum safety which they believe, as a result of thorough testing, minimizes the risks inevitable in their use. It is the users responsibility to see that the following rules are complied with to ensure safety at work:

- The operation of the machine should conform to the requirements of the Woodworking Machines Regulations 1974. All guards should be used and adjusted correctly.
- 2) Safe methods of working only should be adopted as given in BS.6854 Part 1, "Safeguarding Woodworking Machines" and subsequent parts for specific machines (obtainable from Her Majesty's Stationery Office) and as advised by Wadkin plc.
- Only personnel trained in the safe use of a machine should operate it.
- 4) Before making adjustments or clearing chips, etc., the machine should be stopped and all movement should have ceased.
- 5) All tools and cutters must be securely fixed and the speed selected must be appropriate for the following.

Safety is our watchword, but the user must comply with the above rules in his own interest. We would be pleased to advise on the safe use of our products.

> Wadkin Leicester Green Lane Works Leicester. LE5 4PF England Telephone: 0533 769111 Telex: 34646 Wadkin G Fax: 0533 742310

2.2 <u>Safety Instructions</u>

Carefully read instruction manual with particular reference to the following instructions:-

- a) Slinging, ie, safe lifting limits for slings, etc.
- b) Installation and foundation, ie, safe working area of machine, bolt positions, etc.
- c) Wiring details, ie, connection of machine to mains supply, fuse details, etc.
- d) Machine controls and operating instructions.

Ensure tooling is of the correct type for use with the machine and cutters are securely fixed in position.

Select correct spindle speed and feed rate relevant to the tooling being used.

Set all guards correctly and ensure they are securely fixed in accordance with the current regulations.

Use suitable jigs, fixtures and feeding devices etc., (push stick, etc.,) where appropriate.

Refer to BS.6854, Part 1, "Safeguarding Woodworking Machines" and subsequent parts for specific machines for safe working practices.

During Machining

Wear suitable protective equipment, where necessary, eg, goggles, ear defenders and dust mask.

Ensure all moving parts of the machine are stationary before setting, cleaning or making any adjustments.

Report immediately to a person in authority any machine malfunction or operator hazard. Do not attempt to repair the machine unless authorised to do so.

Ensure machine is electrically isolated before any maintenance/cleaning work commences.

NOISE LEVELS

This machine, under certain conditions, will emit noise levels in excess of 85dB(a).

Noise levels will be affected by the environment in which the machine operates the timber being machined, tooling, machine setting and dust extraction.

Further information available from Wadkin on request.

As a manufacturer it is Wadkin's policy to reduce the noise level as far as it is practicable.

FIG. 1

3.0 SPECIFICATION

Capacity of Machine Feed Speed HP of Cutterblock Motor Speed of Cutterblock Speed of Motor - 50 cycle Dia of Cutting Circle Dia of Feed Rollers Maximum Stock Removal Minimum Stock Length HP of Rise and Fall Motor Length of Table Floor Space Approx. Net Weight Approx. Gross Weight Shipping Dimensions

P

7630

Wadkin

<u>T6</u>

633 x 250mm 6-15m/min

5.5Kw

85mm

10mm 280mm

.18Kw

675Kg 860Kg

1000mm

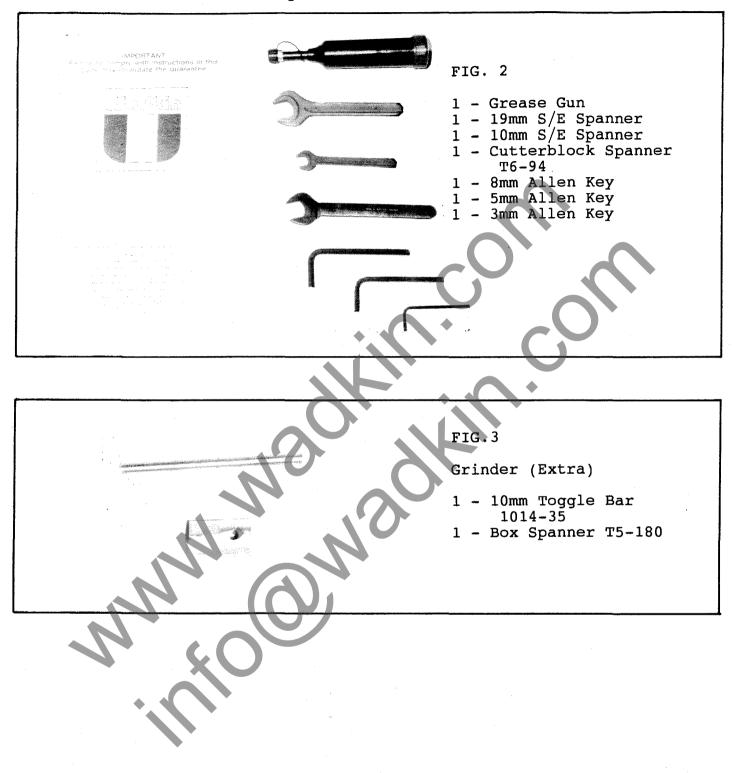
1000 x 1310mm

1.42 x 1.12 x 1.48m

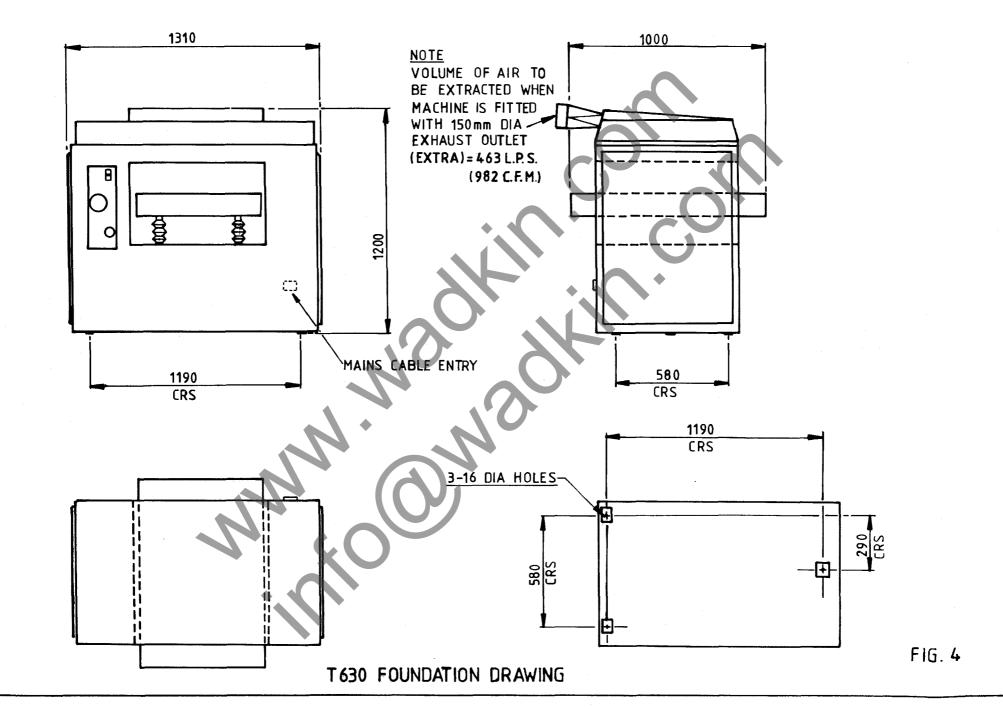
4500 rpm

3000 rpm 3600 rpm 120mm

25	x 20	9 -5	0	3	f	/:	m:	ir ir HF	1
	39	4 3 9		3	/ 1 / 3	8 1 4 9]	in in in HF in	1
								os os	
		55	•	9		x	4	44	
	х	-5	8		2	6	2	in	ì



4.1 Standard Items Despatched with Machine



1-1

4.0 ASSEMBLY INSTRUCTIONS

4.1 <u>Standard Items Despatched with Machine</u>

A set of operational spanners is despatched with the machine, see FIG.2 and FIG.3 for details.

4.2 <u>Slinging</u>

Always use a sling within safe working load of machine weight.

Approximate net weight of machine - 675 KG (1488 lbs) Approximate gross weight of machine - 860 KG (1896 lbs)

a) Carefully position sling under both sides of table as shown in FIG.5, ensuring damage will not be caused to machine or sling during slinging operation.

NOTE: Use only rope slings not chains

- b) Slowly lift machine and ensure slings are not slipping and machine is not tilting.
 - **IMPORTANT:** DO NOT WALK OR STAND UNDER MACHINE DURING SLINGING OPERATION.
 - NOTE: If machine is to be moved at a later date, raise table by handwheel until table hits stops in top position, then proceed as above.

4.3 <u>Foundation</u>

The machine should be so placed that the traffic of men and materials to and from it fits smoothly into the general scheme of traffic. It should also not be necessary for the operator to stand in or near an aisle so as to cause a hazard. The minimum clearance on each working side of the machine should be at least 750mm greater than the largest material worked on the machine.

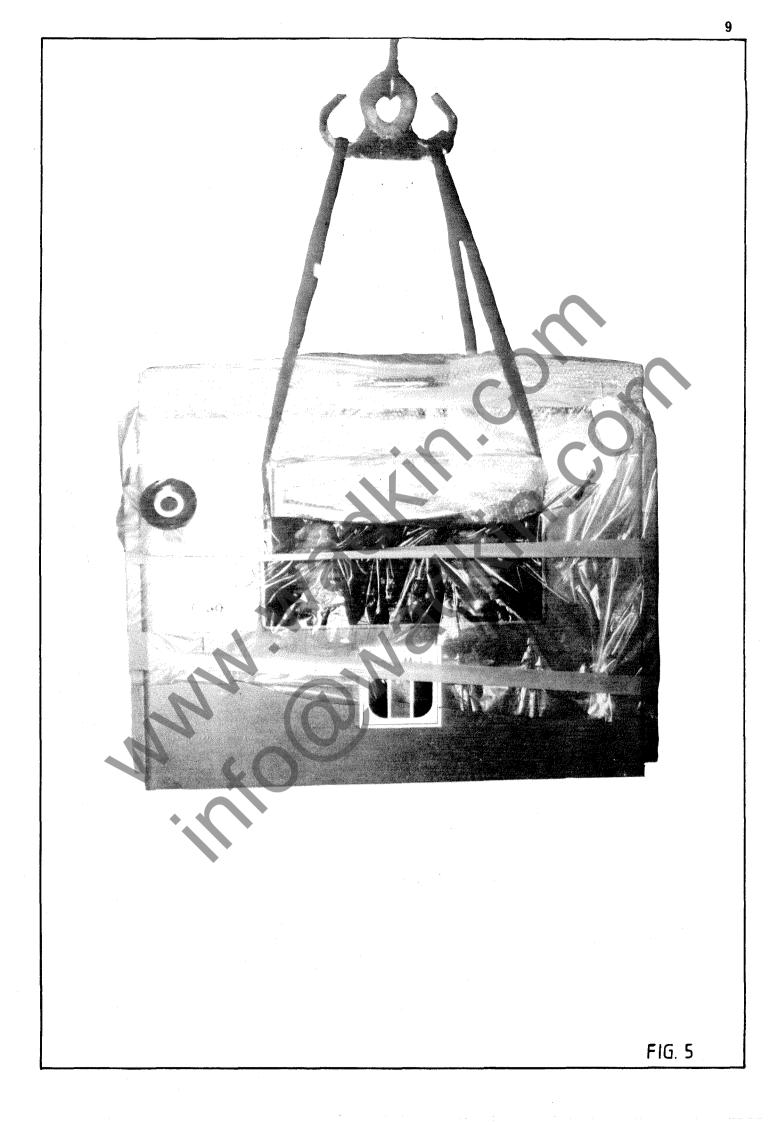
Ensure floor is level, then mark to suit 3 - M12 rawlbolts, refer to foundation plan FIG.4. Drill floor to suit rawlbolts. These bolts are not supplied with the machine, but can be supplied at an additional charge. To obtain access to foundation bolts, remove base side covers.

NOTE: <u>Always</u> replace covers.

4.4 <u>Cleaning</u>

Remove protective coating from bright parts by applying a cloth soaked in paraffin or other solvents.

8



4.5 <u>Electrical</u>

4.5.1 Wiring Connections

The motor and control gear have been wired in before despatch, all that is required is to connect the power supply to the starter or isolating switch when fitted.

Points to note when connecting power supply:-

- a) Check the voltage, phase and frequency correspond to those on the motor plate.
- b) It is important that the correct cable is used to give the correct voltage to the starters, as running on low voltage will damage the motors.
- c) Check the main line fuses are of the correct capacity. See fuse list. (Refer to 4.5.2)
- d) Connect the line leads to the appropriate terminals. See wiring diagrams. (Refer to 4.5.3)
- e) Check all connections are sound.
- f) Check rotation of all motors for the correct direction. If these are incorrect, reverse any two of the incoming mains leads connections.

4.5.2 Fuse List

<u>Direct on Lin</u>	le		
			SAG Tinned
<u>Voltage</u>	Phase	<u>KW</u>	<u>Copper WireAmps</u>
220	3	5.5	14 120
380	3	5.5	15 70
415	3	5.5	17 60
220	3	7.5	13 150
380	3	7.5	15 90
415	3	7.5	15 80
<u>Star Delta</u>			• •
			<u>SAG Tinned</u>
<u>Voltage</u>	<u>Phase</u>	KW	Copper WireAmps
220	3	5.5	17 50
380	3	5.5	19 30
415	r	5 5	21 25
	3	5.5	21 25
220	3	5.5 7.5	15 70
220 380	3		
	3 3 3 3	7.5	15 70

4.5.2 <u>Fuse List</u> (continued)

<u>USA & Canada</u>			
Voltage	Phase	HP	<u>Cartridge Fuse</u> (Circuit Protection)
220/230 440	3	7.5	120
575	3	10	60 60
220/230	3	10	160
440	3	10	80

4.5.3 <u>Wiring Diagrams</u>

See FIGS. 6, 7, 8, 9 10, 11 and 12 (at rear of manual).

4.6 <u>Dust Extraction Details</u>

The extraction outlet is situated on top hood at the rear of the machine. The outlet size if 635mm x 50mm (except when 150mm dia exhaust outlet (extra) is fitted) and should be connected to a flexible extraction hose from the main plant. The volume of air to be extracted is 463 LPS (982 CFM) with a velocity of 26 MPS (5,000 ft per min).



5.0 <u>CONTROLS</u>

5.1 <u>Start/Stop</u>

Before starting machine ensure cutter blades are locked in place and all guards are closed or in position.

When an isolator which is situated at rear of machine is fitted, proceeds as follows:-

To start, turn isolator to '1', then press green button 'B', FIG.13, on left hand panel to start cuter. To stop, press the red button 'C'. To isolate machine, turn isolator to 'O' position. Where no isolator is fitted, control is simply via the panel start/stop button.

5.2 <u>Brake Motor</u>

Brake motor (extra) comes into effect when stop button is pressed, cutterblock cannot then be rotated. To release brake, turn switch situated on front right of machine, clockwise.

5.3 Variable Feed Speed Control

Feed roller drive is by infinitely variable pulley and belt from the motor. To alter feed speed, proceed as follows:-

Turn variable feed speed handwheel 'D' clockwise to decrease speed, anti-clockwise to increase speed, FIG.13.

- a) When altering feed speed, motor must be turning.
- b) To prevent undue wear on variable pulley, turn handwheel throughout complete range once weekly.

5.4 Power Rise and Fall

Power table rise or fall drive is transmitted from a gearbox by a timing belt to table rise and fall screws, which is in turn connected by chain to the 3 remaining rise and fall screws and manual rise and fall handwheel.

To power raise or lower table, proceed as follows:-

- a) Ensure top cover and side covers are secured in position.
- b) Move power rise and fall switch 'E' FIG.13, in direction required to either raise or lower table. For micro table adjustment when required, turn handwheel 'F'.
 - NOTE: If so desired, handwheel 'F' may be used to rise and fall the table through its full travel.
- c) Check digital thickness counter 'G' FIG.14, to ensure correct table position for timber to be planned.

5.5 Digital Timber Thickness Indicator

A digital timber thickness indicator 'G' is conveniently situated on the control plate FIG.14. The scale is operated by vertical movement of the table.

This indicator is preset before despatch from our works, but should the setting be disturbed for any reason, then proceed as follows to reset indicator:-

- a) Isolate machine electrically.
- b) Remove left side base cover.
- c) Ensure table rise and fall belt is correctly tensioned, (refer to 7.6(g)).
- d) Replace all covers.
- e) Start machine and thickness a sample piece of timber, then accurately measure timber thickness.
- f) Loosen M5 grubscrew on timber thickness indicator 'G' and turn handwheel 'F' FIG.13, until indicator display corresponds to the measured timber thickness.

5.6 <u>Table Rollers</u>

The anti-friction rollers or bed rollers, revolve on sealed for life bearings which require no lubrications. The height of these rollers may be adjusted by means of hand lever 'H' on the front of the table FIG.14.

A clockwise rotation would raise the rollers to a maximum of 1.5m above the table surface.

An anti-clockwise rotation would lower to a minimum of 0.05m above table surface.

The maximum height position is for use with wet, twisted or roughly sawn materials, where feeding is a most important feature. In all cases the lowest position consistent with good and regular feed should be used to give the best possible results.

Should the rollers be removed for any reason, care must be taken to replace them exactly as before, otherwise the settings will be disturbed.

It must be emphasised that a really good surface finish from a thicknessing machine is only possible when the face of the timber resting on the machine table is flat and has a reasonable finish. Whenever practicable, this face should be pre-machined on a surfacer to remove twist and other irregularities.

5.7 <u>Rear Pressure Bar Settings</u>

Rear pressure bar is adjustable by means of hand lever 'J' FIG.15 on the front right hand side of machine. Some slight advantage in finish or feeding may on occasions be obtained by raising or lowering pressure bar.

5.8 <u>Motorised Knife Grinder (Optional)</u>

To operate open top hood. By doing so the cutterblock motor is isolated and the power is transferred to the grinder motor. Before commencing grinding operation located the indexing plunger by lever 'K' FIG.16 into one of the peg holes in the indexing device. Slide grinder to bring grinding wheel into position over knife blade and ensure grinding wheel is clear of knife blade before starting. Screw grinder pull handle (which when not in use if secured to left side top cover) into slide bracket 'M'. Start grinder (switch at rear of machine) and screw down onto blade by knurled adjuster 'L' until a light cut is made. Using pull handle, push slide across, traversing rapidly fully over length of blade and back to starting point, repeat until cut is finished and return grinder to starting point. Pull device and relocate, repeat grinding operation and above sequence on all four knives.

NOTE: Each cut adjustment should be made on all blades. <u>Do not</u> treat each blade individually as this will result in variable amounts of removal causing balance problems. Before starting each grinding stroke return grinder to position shown.

After treating all blades, stop grinder motor, unscrew pull handle and pull lever 'K' back into free position.

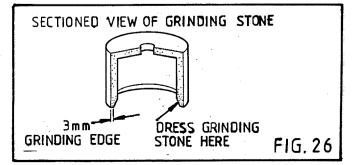
NOTE: If hand lever 'K' is not in free position top hood will not close. Replace top hood before operating machine.

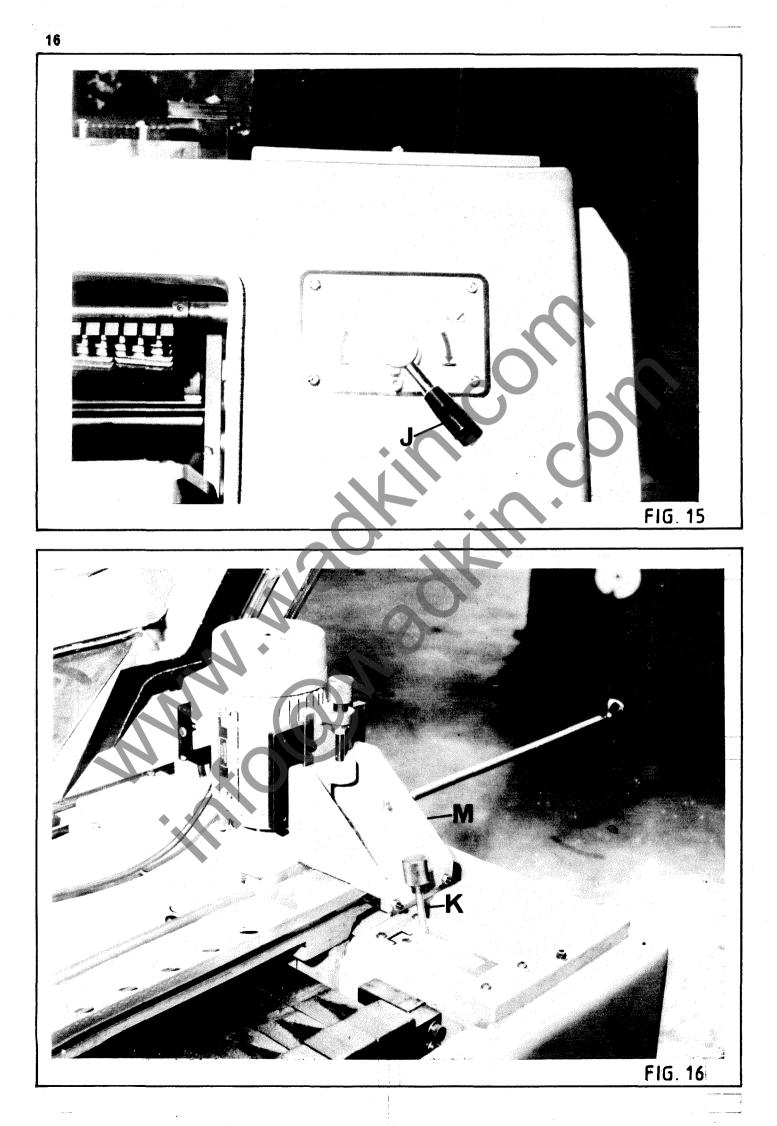
Modification to Knife Grinding Attachment

We have modified the knife grinding attachment to grind the knives at an angle of 45 degree, this will give a longer edge life, with no deterioration in surface finish. As our supplier will continue to supply knives at 35 degrees, the 45 degree angle will be the primary angle and the 35 degree will show as a secondary angle.

IMPORTANT - DRESSING OF CIRCULAR GRINDING STONE

Keep the grinding face on the circular grinding stone to within 1/8" (3mm) wide as shown in FIG.26. This will ensure accurate and clean grinding knives.





7.0 <u>MAINTENANCE</u>

All adjustments and alignments following have been carefully set and checked and the complete machine thoroughly tested before despatch from the works.

During the first few weeks of operation and at regular intervals afterwards, certain items such as belt tension and chain tension should be checked carefully. When adjustments are necessary, proceed in accordance with the relative instructions given.

7.1 <u>Feed Roller Settings</u>

These are preset at works. Should the replacement of feed rollers be fitted at any time, the settings should be carefully checked with FIG.17. Some slight advantage in finish or feeding may on occasions be obtained by increasing or decreasing the tension on the feed roller springs.

7.2 <u>Front Pressure Bar Settings</u>

These are preset at works. Should the replacement of front pressure bars be fitted at any time, the settings should be carefully checked with FIG.17. Some slight advantage in finish or feeding may on occasions be obtained by increasing or decreasing the tension on the screw and nut FIG.18.

NOTE: The springs should never be compressed to a point where feed rollers and pressure bars cannot lift sufficient to allow the maximum cut to be taken.

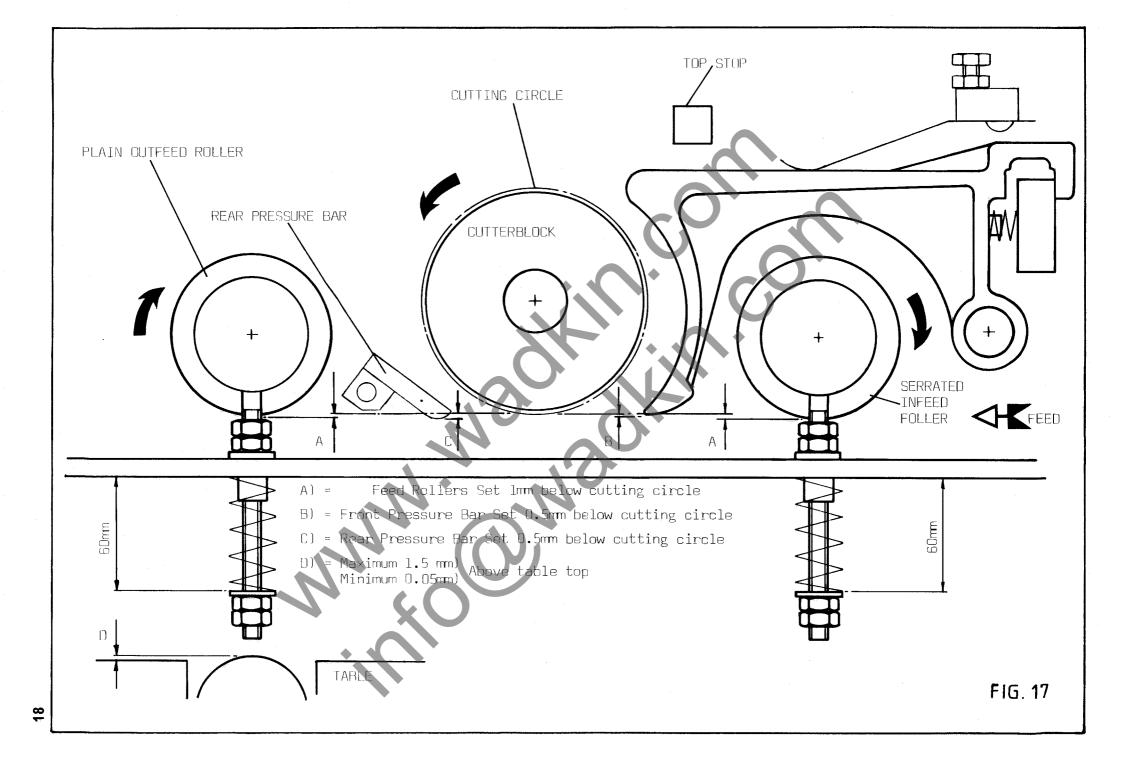
7.3 <u>Cutterblock Belt Tension</u>

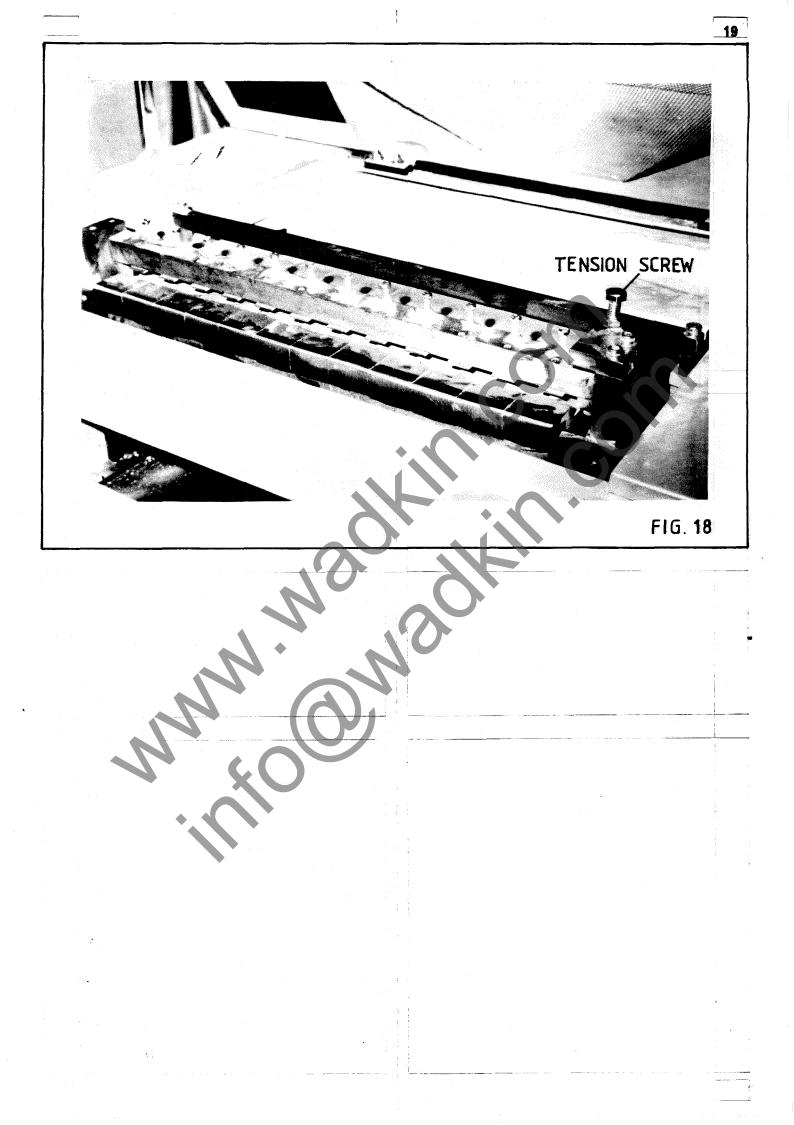
The cutterblock is driven by 3 vee belts from the motor to tension belts, proceed as follows:-

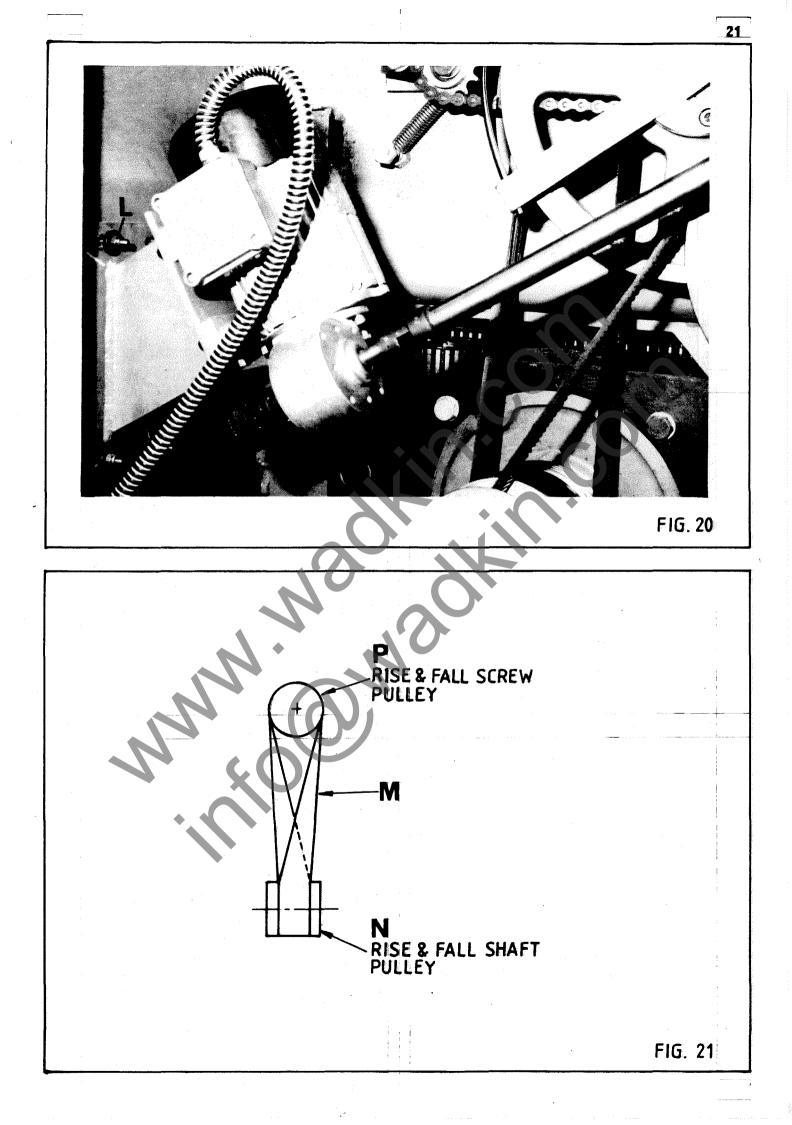
a) Isolate machine electrically.

b) Remove left side base cover.

- c) Loosen 4 M12 hexagon bolts 'E' FIG.19.
- d) Lower motor mounting plate 'F' until weight of motor tensions belt.
- e) Retighten bolts 'E' then replace side cover.
- **NOTE:** Check tension of belt 2 weeks after receipt of machine and check at monthly intervals after that.







7.4 Feed Chain Removal

Feed roller drive is transmitted from main motor through a variable pulley and belt, to feed drive chain 'G' FIG.19. Chain is automatically tensioned by chain tension sprocket 'H'.

To change chain, proceed as follows and refer to diagram inside left side of base:

- a) Isolate machine electrically.
- b) Remove left side base cover.
- c) Extract split link 'J' and remove chain.
- d) Reverse above procedure to refit chain then replace side cover.

7.5 <u>Variable Drive Belt Removal</u>

To change variable drive belt, proceed as follows

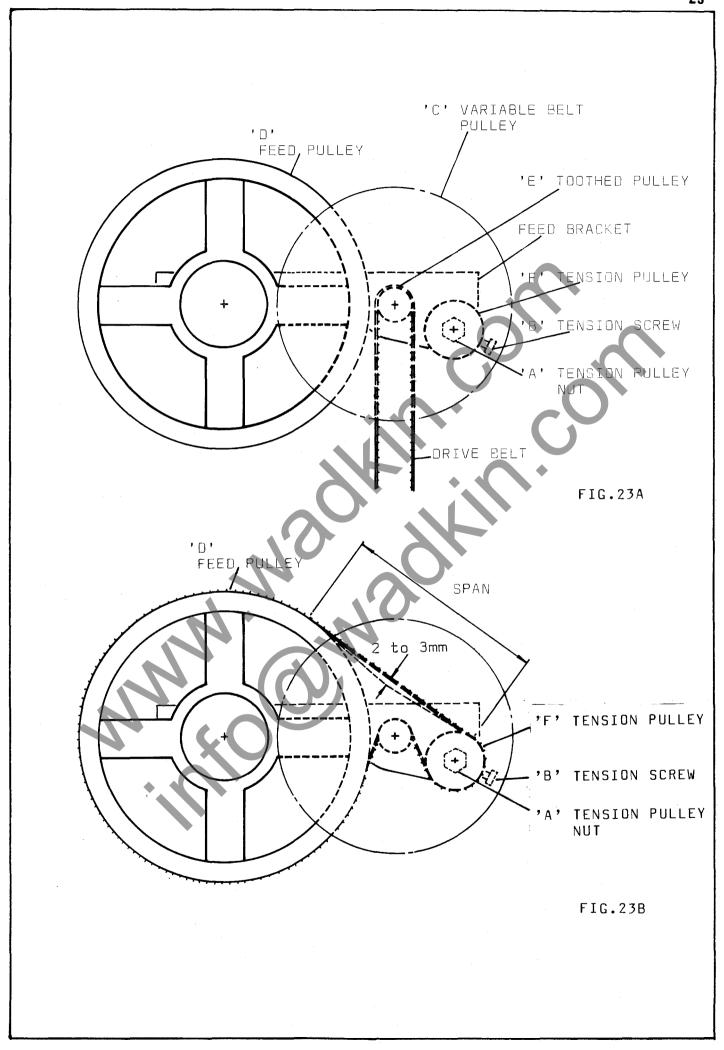
- a) Isolate machine electrically.
- b) Remove left side base cover.
- c) Turn variable feed speed handwheel 'D' FIG.13 anticlockwise to maximum position.
- d) Remove variable drive belt 'K' FIG.19.
- e) Reverse above procedure to refit belt then replace side cover.

7.6 <u>Table Rise and Fall Belt Replacement</u>

To change timing belt, proceed as follows:-

) Isolate machine electrically.

- b) Remove left hand side cover.
- c) Loosen 4 M10 aerotight nuts 'L' FIG.20, to release tension on motor bracket.
- d) Remove existing time belt 'M' from pulley 'N' on rise and fall shaft FIG.19.
 - NOTE: New belt should never be forced or prised over the pulley flange. To ensure smooth operation and prevent premature failure, do not sharply bend or crease the belt.



7.6 <u>Table Rise and Fall Belt Replacement</u> (continued)

- e) Position new belt over pulley 'P' on rise and fall screw FIG.21.
- f) Turn belt through 45 degrees and locate over pulley 'N' on rise and fall shaft.
- g) Adjust motor bracket to tension belt. Correct tension will have been achieved when belt can be deflected to 8mm in centre of span.
- h) Relock M10 aerotight nuts.
- i) Replace left hand side cover.
- 7.7 <u>Replacement of Feed Timing Belt</u>
 - a) Isolate machine electrically.
 - b) Remove left side base cover.
 - c) Remove variable speed belt (refer to 7.5)
 - d) Remove hexagon bolt 'R' on feed pulley and remove feed belt guard 'S' FIG.19.
 - e) Loosen belt tension pulley nut 'A' and tension screw 'B' FIG.23A.
 - f) To remove old timing belt, position belt between variable pulley 'C' and feed pulley 'D' at the same time turning variable pulley 'C' until belt is removed.
 - NOTE: New belt should never be forced or prised over the pulley flange. To ensure smooth operation and prevent premature failure, do not sharply bend or crease the belt.
 - Position new belt between variable pulley 'C' and feed pulley 'D' at the same time turning pulley 'D' until teeth of belt located around teeth of pulley 'E' ensuring that the remainder of belt is hanging vertically FIG.23A.
 - h) Refer to FIG.23B. Position belt around tension pulley 'F' then turn belt so as to reverse teeth from inside of belt to outside. Position belt around feed pulley 'D'.
 - i) Tighten tension screw 'B' to tension belt.
 - **IMPORTANT:** Belt must be tensioned <u>very tight</u>. This will have been achieved when belt can be deflected 2 to 3mm in centre of span FIG.23B.

7.7 <u>Replacement of Feed Timing Belt</u> (continued)

- j) Lock belt tension nut 'A'.
- k) Replace guard, variable speed belt guard and left side base cover.

7.8 <u>Rise and Fall Chain Tension</u>

- a) Raise thicknesser table to top position.
- b) Isolate machine electrically.
- c) Loosen M12 aerotight nut 'T' FIG.24 and turn M8 grubscrew.
- d) Retighten M12 aerotight nut 'T'.

7.9 <u>Cutting Setting</u>

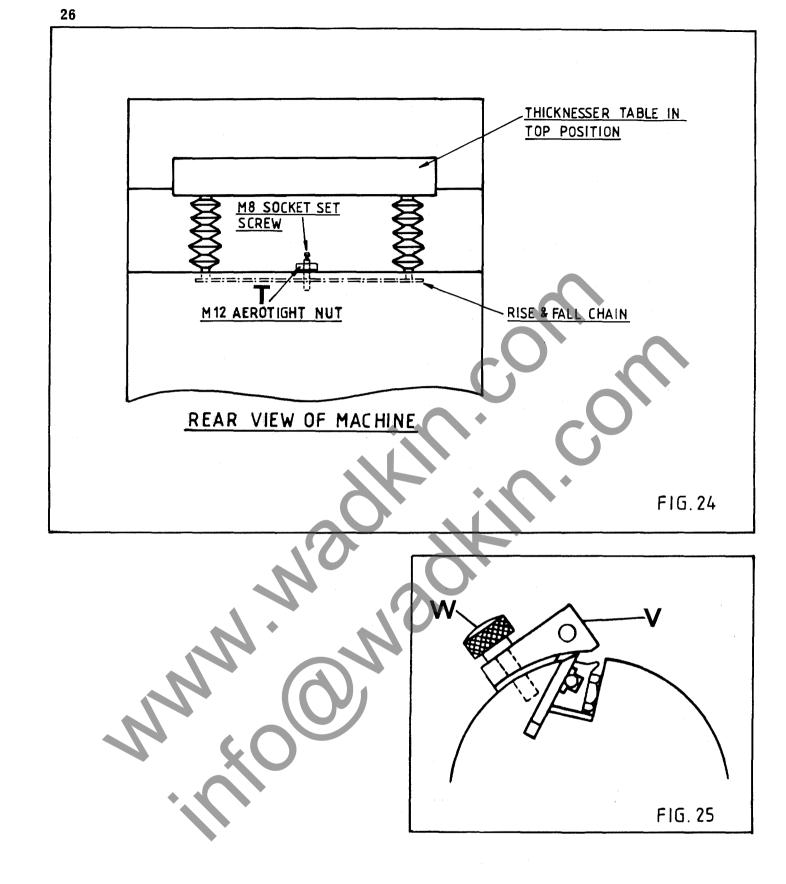
The knife is held in the cutterblock by a wedge, into which is fitted spring loaded balls. These balls hold the knife finger tight whilst the 9 - M12 hexagon head screws are loose. This allows both hands to be free to adjust the blade and ensure that it will not slip back during setting or move whilst the wedge screws are being tightened up. Should any other method of cutter setting be employed, the amount of cutter projection must correspond exactly with that given by the setting gauge supplied and failure to observe this instruction will result in bad feeding and poor finish.

To remove the knives and reset with the "WADKIN DURHAM" knife setting gauge, proceed as follows:

- a) Turn the cutterblock to approximately the position shown in FIG.25 and loosen the 9 - M12 hexagon head screws, carefully remove knife from cutterblock.
 - NOTE: When grinding it is most important that knives are ground dead straight and balanced in pairs or sets.

An efficient re-grinding service is available, charges are moderate and service prompt. To avail yourself with this service, return knives to Wadkin Durham, Dunbmire Trading Estate, Fence Houses, Houghton-le-Spring, Tyne & Wear, DH4 5RQ.

- b) To reset the knives, the cutterblock should be in the approximate position shown in FIG.25. Place the knife in between wedge and cutterblock with the blade drawn forward slightly.
- c) Carefully secure the knife setting device 'V' FIG.25 (which when not in use is secured to the left side base top cover) to the cutterblock with the two knurled locking screws 'W' as shown in FIG.25.



7.9 <u>Cutter Setting</u> (continued)

- d) Whilst turning these locking screws 'W' FIG.25, knife will be lowered to correct setting which is reached when knurled screws are locked in position and knife just touches knife setting device.
- e) When the knife is correctly set, tighten the 9 M12 hexagon head screws, remove knife setting device then securely lock the 9 - M12 hexagon head screws.
- f) Rotate cutterblock until the next knife is in position and repeat the procedure until all the knives have been set.
- g) When changing knives it is advisable to check that all the locking screws are adequately lubricated and quite free. Periodically examine for damage or cracks. Any doubtful screws should be replaced and all screws well lubricated with 'Molyslip' or similar oil, before replacing.

7.10 <u>General Hints</u>

i)

- a) When thicknessing long lengths of timber, always support before and after the machine table, otherwise a step will appear on either or both ends.
- b) When a smooth finish is required, use the slow speed. For roughing when the finish is not important, use the fast feed speed.
- c) For the best results, always feed the timber to cut with the grain.
- d) Should the timber stick when thicknessing, the probable causes are as follows:

To much friction on table.

- ii) The spring pressure is too great on the rear pressure bar.
- iii) Not enough pressure on either front or rear feed rollers.
 - **NOTE:** See feed roller, table roller and pressure bar setting.
- iv) Machine table sticky due to timber resin (clean table).
 - v) Wet timber being machined (use dry timber).

IMPORTANT: Always isolate machine electrically before adjustment, maintenance or cleaning.

7.11 Lubrication

The majority of machine working parts are designed to require no lubrication. All that is required is to periodically lightly oil the feed roller chain, situated inside left side base cover and loosen the shrouds and oil the four rise and fall screws.

Approved lubricants, see page 29.

CastrolB.P.ShellEssoTexaco/CaltexWadkiNorm BoxesZN220Energol CS320Vitrea 320Spartan EP220Regal Oil 320L2General ubricationMagna 68Energol NP68Vitrea 68NurayUrsa Oil P68L4PneumaticHyspin AWS32Epergol HL32Tollys 87Nuta H32Bando Gil HD32					0	5	
Norm BoxesZN220Energol CS320Vitrea 320Spartan EP220Regal Oil 320L2General LubricationMagna 68Energol NP68Vitrea 68NurayUrsa Oil P68L4PneumaticHyspip AWS32Energol HL32Tallus 87Nuta H32Rando Oil HD32	Application		APPR	OVEDL	UBRICANT	S	· · · · · · · · · · · · · · · · · · ·
Generalubrication Magna 68 Energol HP68 Vitrea 68 Nuray Ursa 0il P68 L4 Pneumatic Hyspin AWS32 Energol HL32 Tollus 87 Nuto H32 Rapdo Oil HD32	ng n	Castrol	B.P.	Shell	É.SSO 🔶	Texaco/Caltex	Wadkin
Pneumatic Hyspin AWS32 Energol HL32 Tollys 87 Nute H32 Rando Oil HD32	Worm Boxes	ZN220	Energol CS320	Vitrea 320	Spartan EP220	Regal Oil 320	L2
Pneumatic Lubricators Hyspin AWS32 Energol HL32 Tellus 37 Nuto H32 Rando Oil HD32	General Lubrication	Magna 68	Energol (1968	Vitrea 68	Nuray	Ursa Oil P68	L4
		Hyspin AWS32	Energol HL32	Tellus 37	Nuto H32	Rando Oil HD32	
Grease Spheerol AP3 Energrease L53 Alvania R3 Beacon 3 Regal Starfalk L6 Premium 3	Grease	Spheerol AP3	Energréase L53	Alvania R3	Beacon 3		LG
Brake Cables Brake Cable Energrease Alvania R3 Esso Multi- grease L21M Purpose grease	Brake Cables			Alvania R3			

Instructions for fitting/replacing Tersa knives

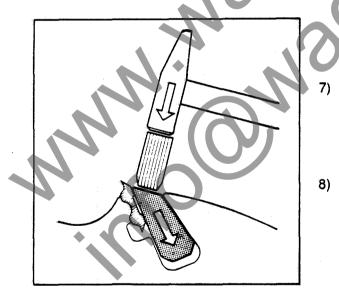
- 1) Ensure machine has been stopped and cutterblock is at rest.
- 2) Turn the isolator at the rear of the machine to the 'OFF' position.
- 3) Use an allen key to release a spring loaded capscrew at the front of the machine near the handle. This will allow the lid to be raised. Open the lid until the lid support 'clicks' into position.

To release support the lid must be raised slightly and a release lever (located half way up the support) pulled forward.

5)

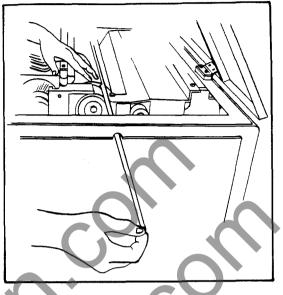
6)

 If a knife is already fitted use a soft wood driver and a mallet to tap the securing wedge downwards along its length.



Slide knife out through extraction hole in side of frame.

Note: Extreme care should be taken when handling knives.



Insert new knife or turn existing knife around to use the second cutting edge. Ensure knife does not project outside length of cutterblock.

- Turn cutterblock and repeat removal/insertion procedure on all knives. A new knife protrudes approximately 1mm above cutterblock.
 - Close and fasten lid. Turn isolator to the 'ON' position and start machine. The centrifugal force on the wedges tighten them onto the knives.

Stop and isolate machine after approximately 15 secs. When the cutterblock has come to rest check all wedges are tight. If any are loose, remove knife and clean wedge groove using compressed air jet to remove any dirt, wood chips etc, that may be preventing wedge tightening. Replace knife. Repeat steps (6) and (7) until all knives are secure. Ensure lid is locked down before returning to full use.

8.0 <u>SPARES</u>

8.1 Instructions When Ordering Spare/Replacement Parts

The undermentioned information should be given with all orders requesting spare/replacement parts.

- a) Machine type.
- b) Machine serial number.
- c) Part number of required parts, as stated in the instruction manual.
- d) If no manual available, as full a description as possible of the required part, including location within the machine.
- e) Order number and full company name and address.
- f) Company account number, with Wadkin, if known.
- g) All telephone orders <u>must</u> be followed by an official order, clearly marked "<u>Confirmation Order</u>".

NOTE: The company operate a 'Minimum Order Charge' on all spare/replacement part orders.

8.2 <u>Mechanical Spares List</u>

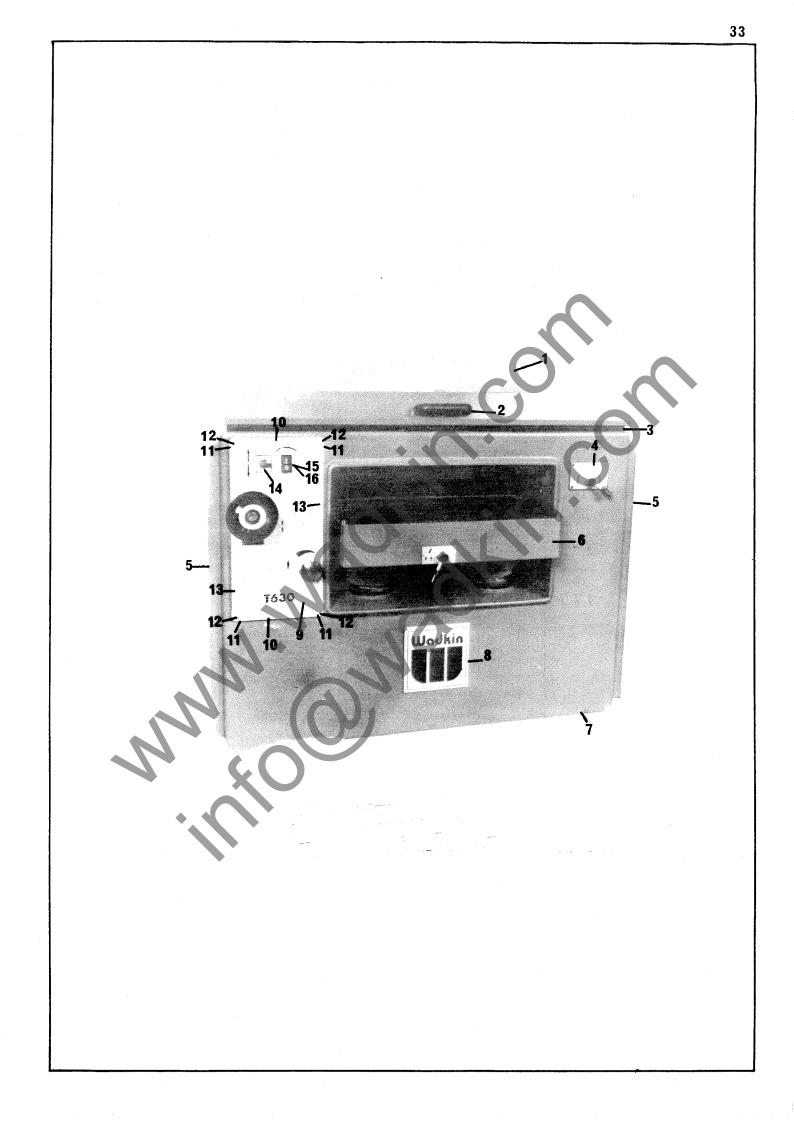
Index

Base Assembly	Page 32 - 33
Table Assembly	Page 34 - 35
Feed Roller Assembly	Page 36 - 37
Cutterblock	Page 38 - 39
Front Pressure Bar and	
Kick Back Finger Assembly	Page 40 - 41
Rear Pressure Bar Assembly	Page 42 - 43
Feed Assembly	Page 44 - 45
Rise and Fall Assembly	Page 46 - 47
Rise and Fall Assembly	Page 48 - 49
Main Motor Assembly	Page 50 - 51
Grinder Assembly	Page 52 - 53
Soundproofing Standard Machine	Page 54 - 55
Soundproofing Grinder	Page 56 - 57



ILLUSTRATED PARTS LIST

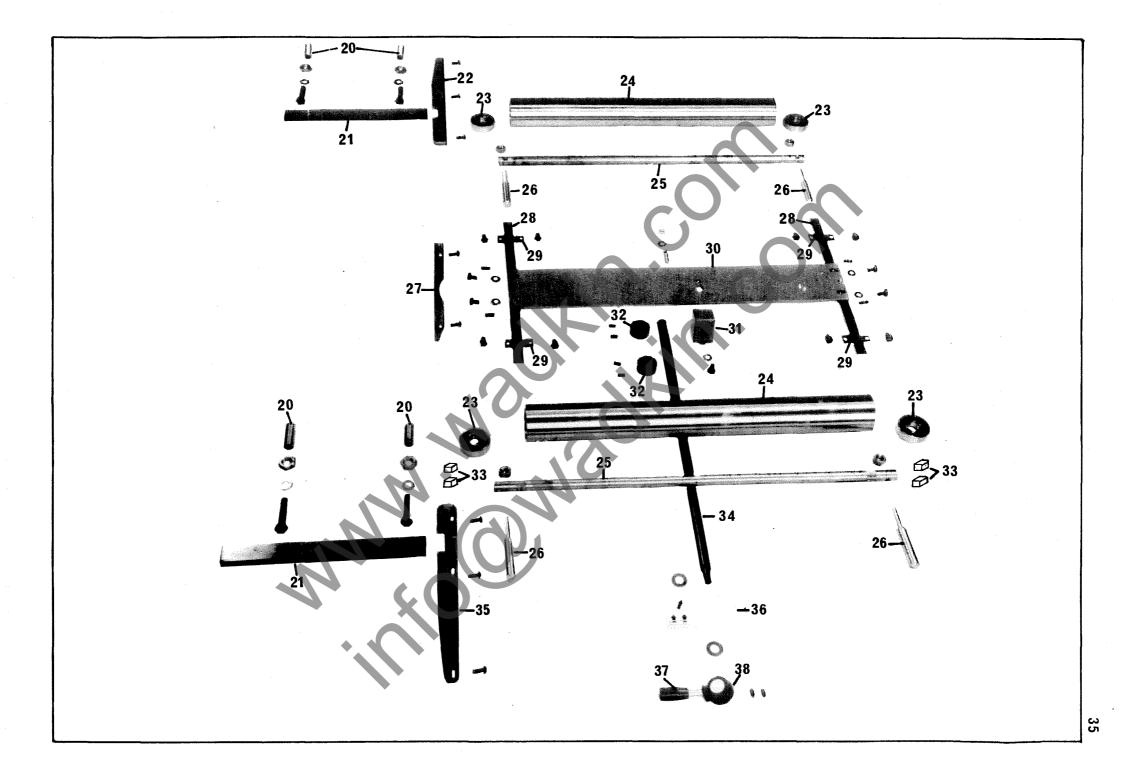
ASSE	MBLY:-	BASE	
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	T6-107 T6-101 K51-27-200 K51-66-108 T6-201 T5-262 T6-117 T6-222 QAJ-393 T6-235 T6-111 BEL-51 BEL-52 T6-112 K51-17-245 K51-17-314	1 1 1 2 1 1 1 2 4 4 2 1 1 1 1	Top Cover - Standard Top Cover - Grinder Handle Edging Strip Control Plate Side Covers Table Base Wadkin Nameplate Control Plate Extrusions Corner Mouldings Caps Extrusions TO-3-62355GB/E Switch ZB2-BL9434 Stop/Start Button IN/C & IN/O ZB2-B2105 Contact Block





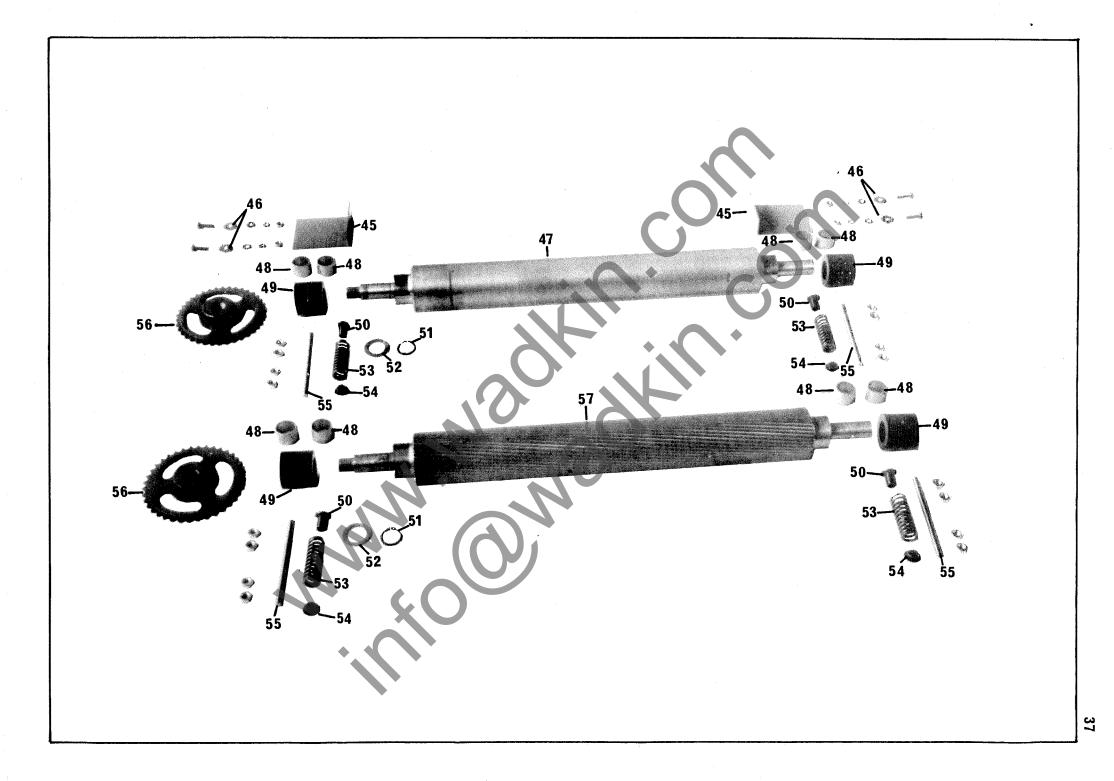
ILLUSTRATED PARTS LIST

ASSE	EMBLY:-	TABLE	
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	T5-357 T5-216 T5-244 K06-01-331 T6-17 T6-118 T6-121 T5-371 T5-434 T5-500 T6-119 079-1732 079-681 T6-153 T5-436 T5-367 T5-440 K51-27-195 CP3-255	7 4 2 4 2 2 4 1 2 4 1 2 4 1 2 1 1 1	Adjusting Screws Table Guide Gibs Outfeed Table Fences 6304-2RS Bearings Under Table Roller Shafts Under Table Roller Shafts Under Table Roller Shide Bars Slide Bar Retaining Plate Under Table Roller Slide Bar Plate Cross Slide Nut Stop Collars Dust Cover for Under Table Rollers Under Table Roller Screw Infeed Table Fences Control Plate Lever Arm Lock Handle



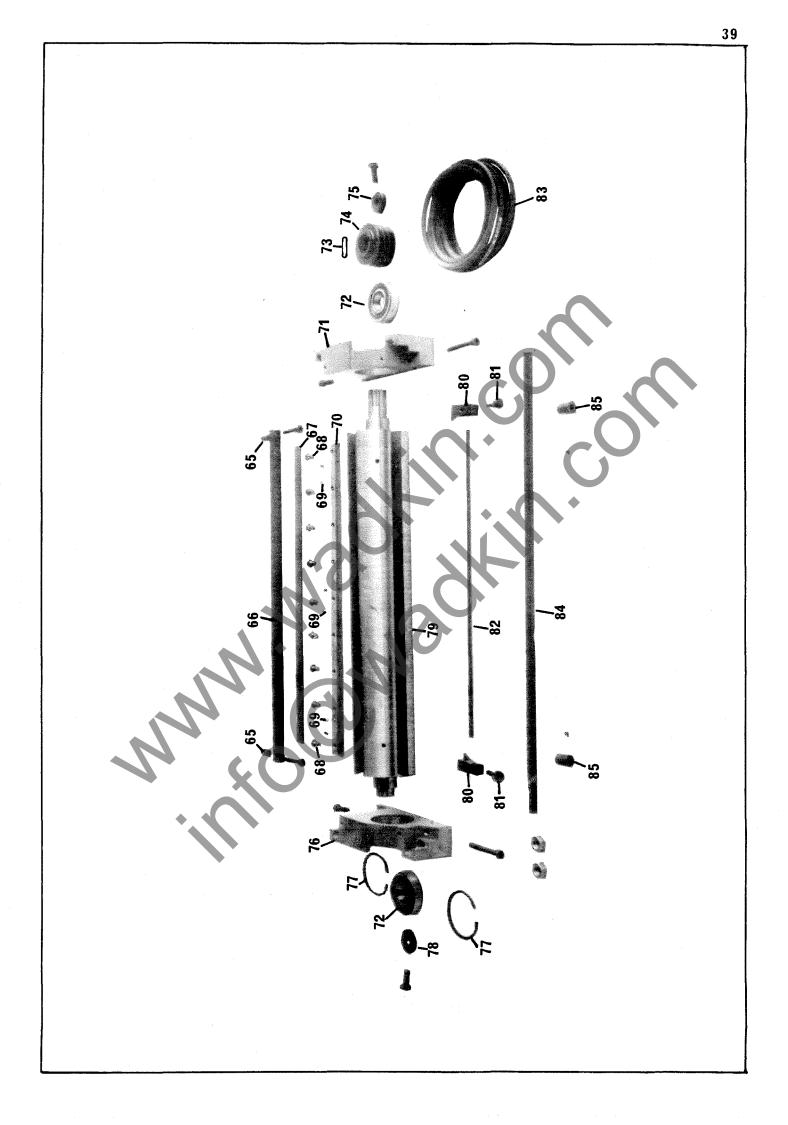


ASSEM	IBLY:-	FEED	ROLLER
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
45 46 47 48 49 50 51 52 53 54 55 56	PART NO.* T5-257 041-88 T6-8 K51-05-130 T5-45 T5-154 K51-10-408 T5-83 K51-73-121 069-106 T5-54 T5-9 T6-9	PER	DESCRIPTION



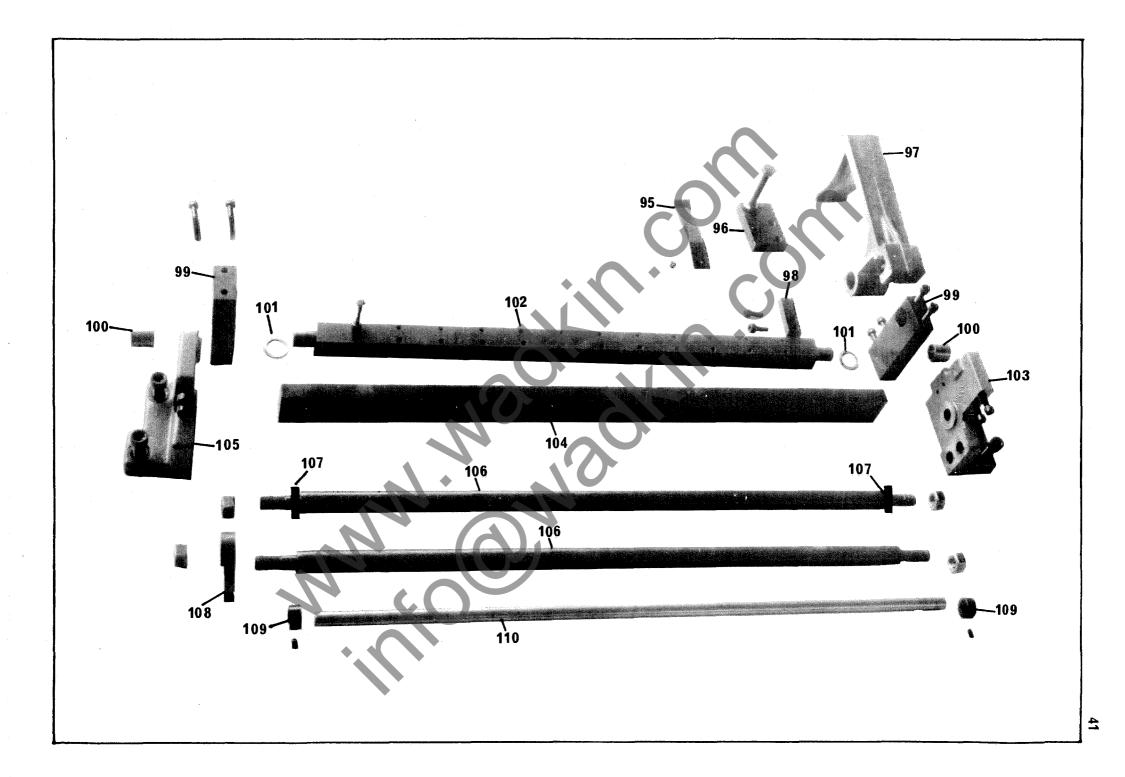


ASSE	EMBLY:-	CUTTI	ERBLOCK
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	024-74 T6-87 BVP-100 069-424 K51-29-122 078-91 T6-264 K06-01-354 K51-20-117 T5-531 070-193 T6-263 K51-10-209 EM-172 T6-97 T5-70 069-184 078-54 K51-04-207 T6-14 T5-81	2 1 4 36 12 4 1 2 1 1 2 2 1 3 1 2	Spacers Limited Bar Knives Screws for Cutterblock Wedges 1/4" Dia Ball Catch Cutterblock Wedges Drive Side Bearing Housing 6307-2RS Bearings Housing 6307-2RS Bearings Housing 7000-080 Internal Circlips Washer Cutterblock Knife Setting Device Blocks Knife Setting Device Blocks Knife Setting Device Tie Bar Sec 1600 Optihelt Top Stop Bar Top Stops



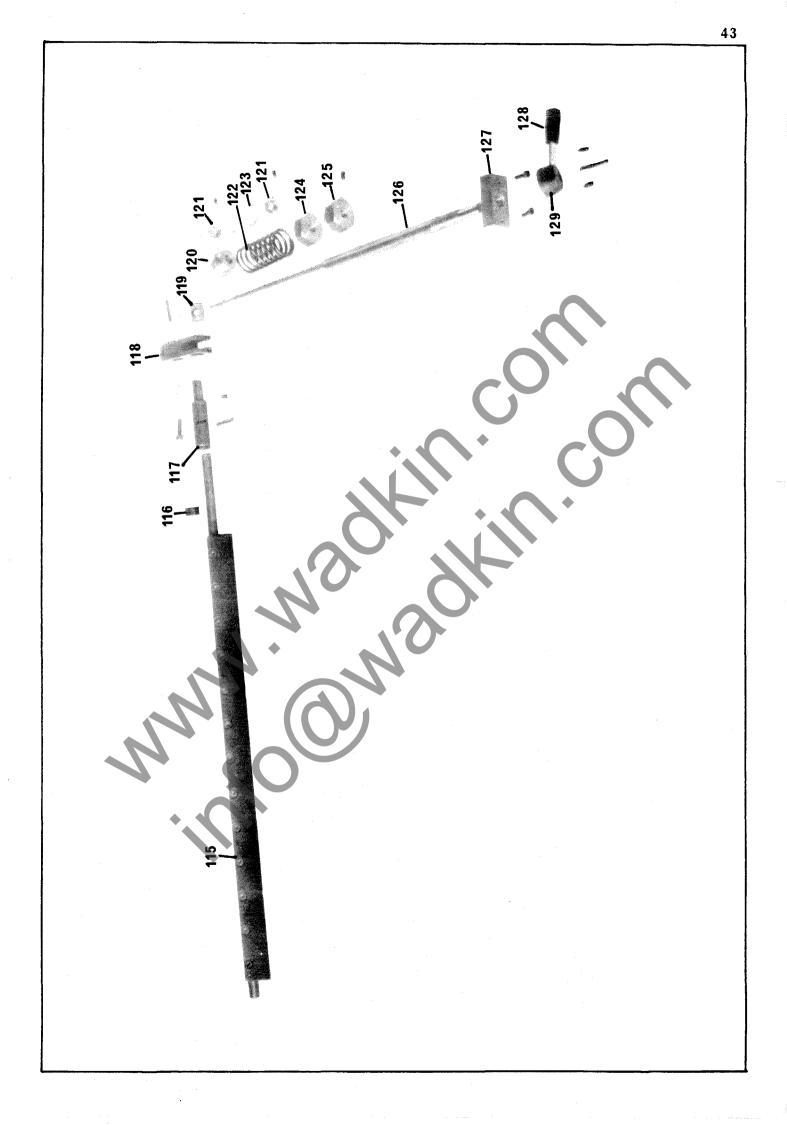


ASSE	MBLY:-	FRONT	PRESSURE BARS AND KICK BACK FINGERS
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
FIG ITEM 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	PART NO.* T5-373 T5-510 T6-103 T6-210 T5-509 K51-05-116 T6-192 T5-491 T6-190 T5-492 T6-144 T5-385 BSK-1344 T5-81 T6-145	PER	DESCRIPTION Chipbreaker Springs Top Plate Sectional Pressure Bars Pressure Plates 20 x 25 x 25 Long Oilite Bushes Washers Spring Support Bar Pressure Bar Support Bracket (RH) Pressure Bar for Kick Back Fingers Collars Kick Back Fingers Top Stops Stop Bar



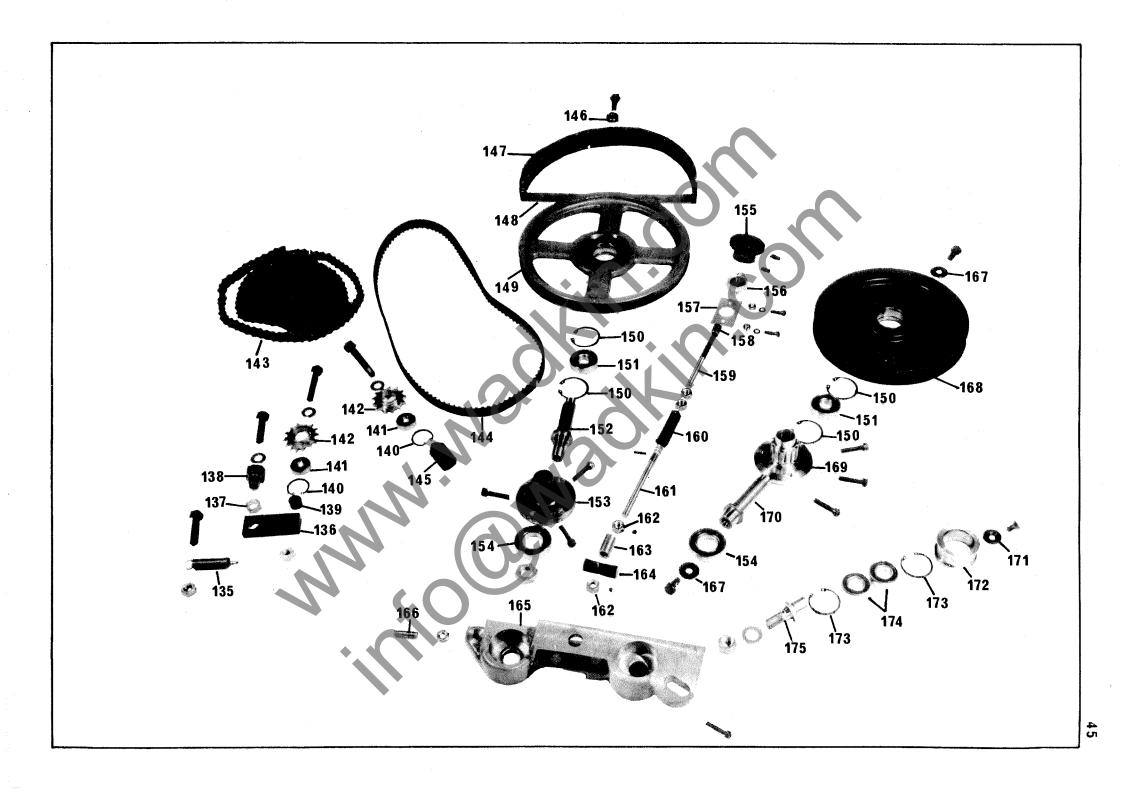


ASSE	MBLY:-	REAR	PRESSURE BAR
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
FIG ITEM 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	PART NO. * T6-255 PAR-84 T6-180 T6-175 T6-168 T6-166 T5-101 K51-73-123 T6-209 T6-167 T6-165 T6-174 T6-245 K51-27-195 CP3-255	PER	DESCRIPTION Rear Pressure Bar Locking Collar Extension Shaft Clamp Bar Swivel Nut Spring Retainer Stops ETS 217 Spring Washer Locknut Adjusting Nut Adjustment Sorew Adjustment Plate Lever Arm Locking Handle



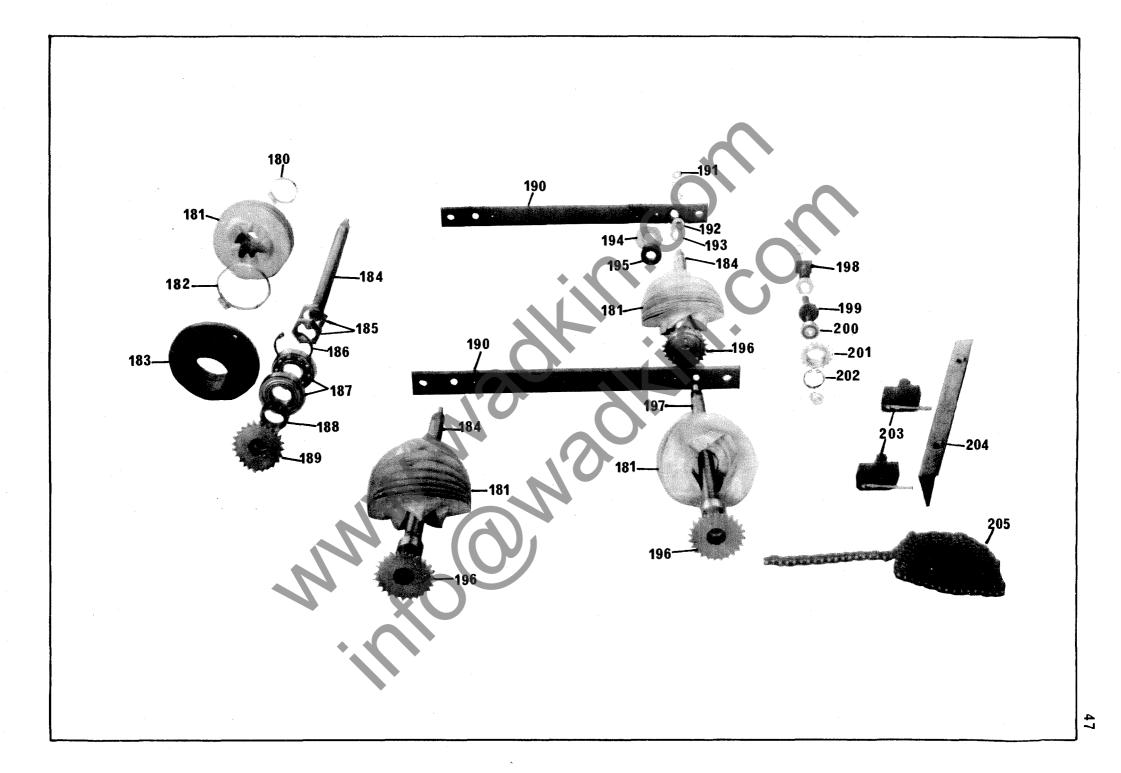


ASSE	MBLY:-	FEED	
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174	$\begin{array}{r} \text{K51-73-129}\\ \text{T5-49}\\ \text{K51-05-144}\\ \text{T5-50}\\ \text{T5-48}\\ \text{K51-10-202}\\ \text{K06-01-180}\\ \text{T5-10}\\ \text{K51-08-131}\\ \text{K51-04-653}\\ \text{T5-47}\\ \text{S25-10}\\ \hline\\ \textbf{T5-313}\\ \text{T5-354}\\ \text{K51-10-205}\\ \text{K06-01-200}\\ \text{T5-44}\\ \textbf{T5-4}\\ \text{K06-01-126}\\ \textbf{T5-135}\\ \text{K06-30-401}\\ \textbf{T5-345}\\ \textbf{T5-108}\\ \textbf{T5-327}\\ \textbf{T5-329}\\ \textbf{T5-328}\\ \textbf{T5-101}\\ \textbf{T5-327}\\ \textbf{T5-328}\\ \textbf{T5-101}\\ \textbf{T5-329}\\ \textbf{T5-328}\\ \textbf{T5-101}\\ \textbf{T5-399}\\ \textbf{T5-66}\\ \textbf{T5-19}\\ \textbf{T5-399}\\ \textbf{T5-66}\\ \textbf{T5-19}\\ \textbf{T5-310}\\ 026-396\\ \textbf{T6-256}\\ \textbf{T5-3}\\ \textbf{T5-248}\\ \text{K51-10-204}\\ \textbf{K05-01-121}\\ \textbf{T5-249}\\ \end{array}$	ASSEMBLY 1 1 1 1 1 1 1 1 1 1 1 1 1	ETS 579 Spring Plate for Chain Tensioner 18 x 22 x 12 Long Oilite Bush Pivot Pin for Chain Tension Spacer 7000-2RS Internal Circhips 6201-2RS Bearings Sprockets 138 Pitch 1/2" Chain 480L075 Belt Spacer for Idle Sprocket Spacer Driven Pulley Guard Strip Driven Pulley Guard Bracket Driven Pulley Guard Bracket Driven Pulley 7000-047 Internal Circhip 6204-2RS Bearings Feed Change Spindle Sprockets 6006-2RS Bearings Rise and Fall Handwheel Asahi UFL001 Bearing Bearing Back Plate Spacer Feed Adjusting Shaft - Plain Feed Adjusting Shaft - Screwed Stops Spacer for Screwed Adjusting Shaft Feed Adjusting Bhaft - Screwed Stops Spacer for Screwed Adjusting Shaft Feed Drive Pulley Gear Feed Drive Pulley Gear Feed Drive Gear Spindle Spacer Drive Belt Flange Roller 7000-042 Internal Circlips 6004-2RS Bearings Tension Roller Spindle





ASSE	MBLY:-	RISE	& FALL
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
	K51-11-202 T5-279 K51-11-205 T6-257 T5-324 T5-256 K51-10-208 K06-01-219 PAR-89 T6-238 T5-61 041-88 T6-396 T5-63 T5-63 T5-330 T5-64 T5-266 T5-447 T6-214 T6-213 K51-01-180 PAR-178 K51-10-202 K51-17-104 T5-448 K51-08-129 T6-228	4 4 4 4 3 8 4 8 4 1 2 4 4 4 4 4 4 4 4 4 4 4 1 1 1 1 1 1	40mm Dia Jubilee Clips Bellows 80mm Dia Jubilee Clips Bearing Housings Rise & Fall Screws Rise & Fall Locknuts 72mm Internal Circlips 6207Z Bearings Driven Sprocket Spacers Drive Sprocket Rise & Fall Screw Tie Plate Washers Rise & Fall Screw Washers Rise & Fall Screw Washers Rise & Fall Screw Washers Rise & Fall Screw Collar Chain Tensioner Shaft 6201-2RS Bearing Chain Tension Sprocket 7000-032 Internal Circlip C Y K Limit Switch Mounting Plate 198 Pitch 3/8" Chain Drive Sprocket Timing Pulley (used with Item 189)

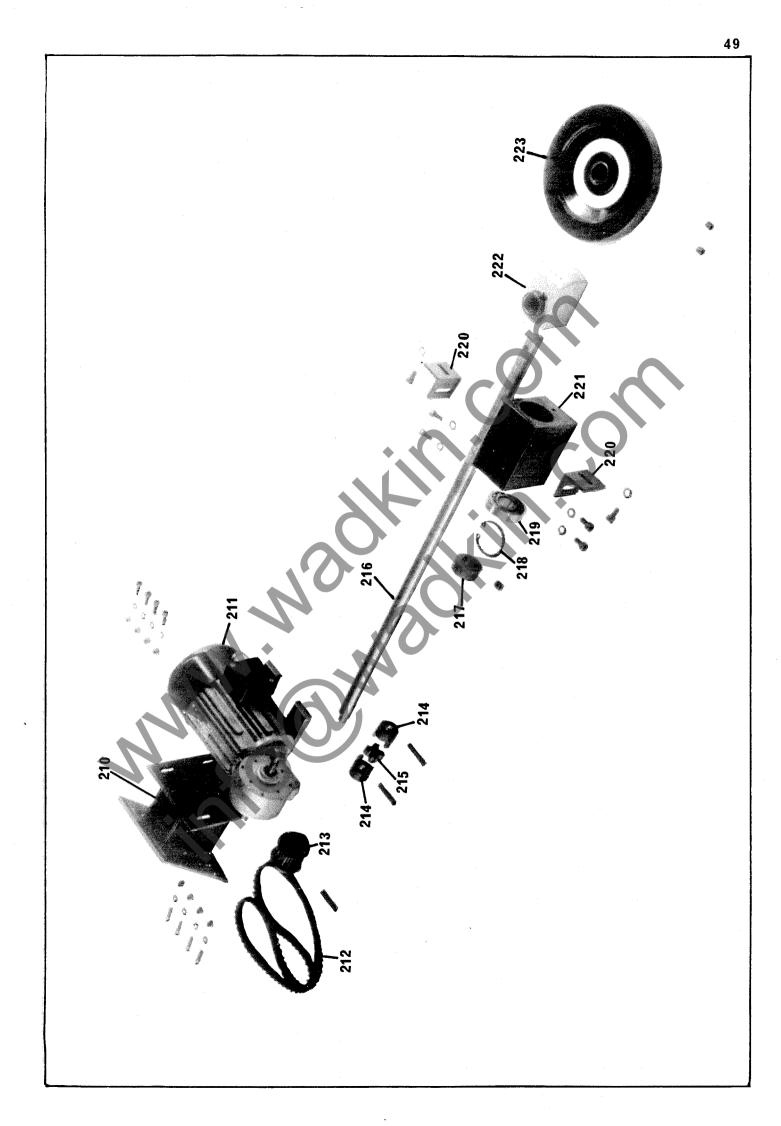


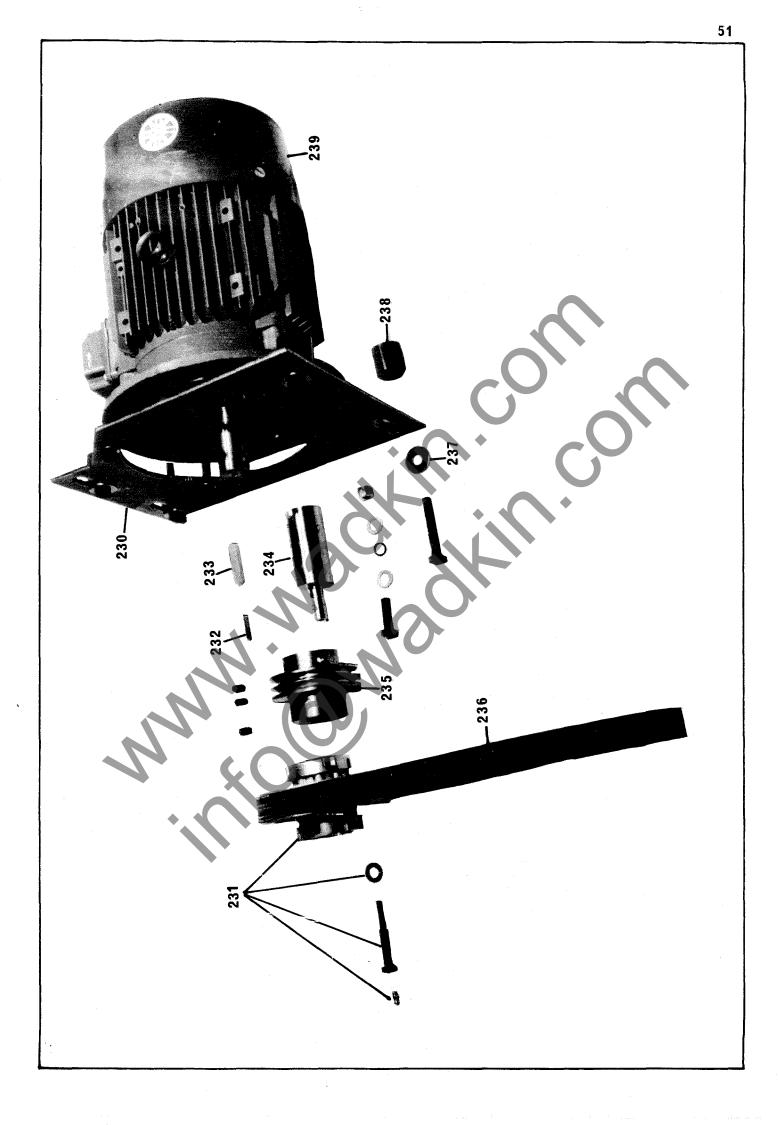


ASSE	MBLY:-	RISE	& FALL
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
FIG ITEM 210 211 212 213 214 215 216 217 218 219 220 221 222 223	PART NO.* T6-223 K51-15-650 K51-04-554 T6-229 T6-215 K51-17-106 T6-236 T6-237 S25-394 K51-10-205 K06-30-415 T6-233 T6-232 T6-240 K51-09-132 K51-09-132 K51-09-110 T5-505	PER	DESCRIPTION Motor Gearbox Bracket Rise & Fall Motor 367 x L050 Timing Belt Gearbox Timing Pulley Couplings U4-26-736 Coupling Spider Handwheel Shaft (Metric) Handwheel Shaft (Imperial) Collar 7000-047 Internal Clip 1204 Self Align Bearing Brackets Bearing Housing (Metric) Bearing Housing (Imperial) Counter (Metric) Counter (Imperial) Rise & Fall Handwheel



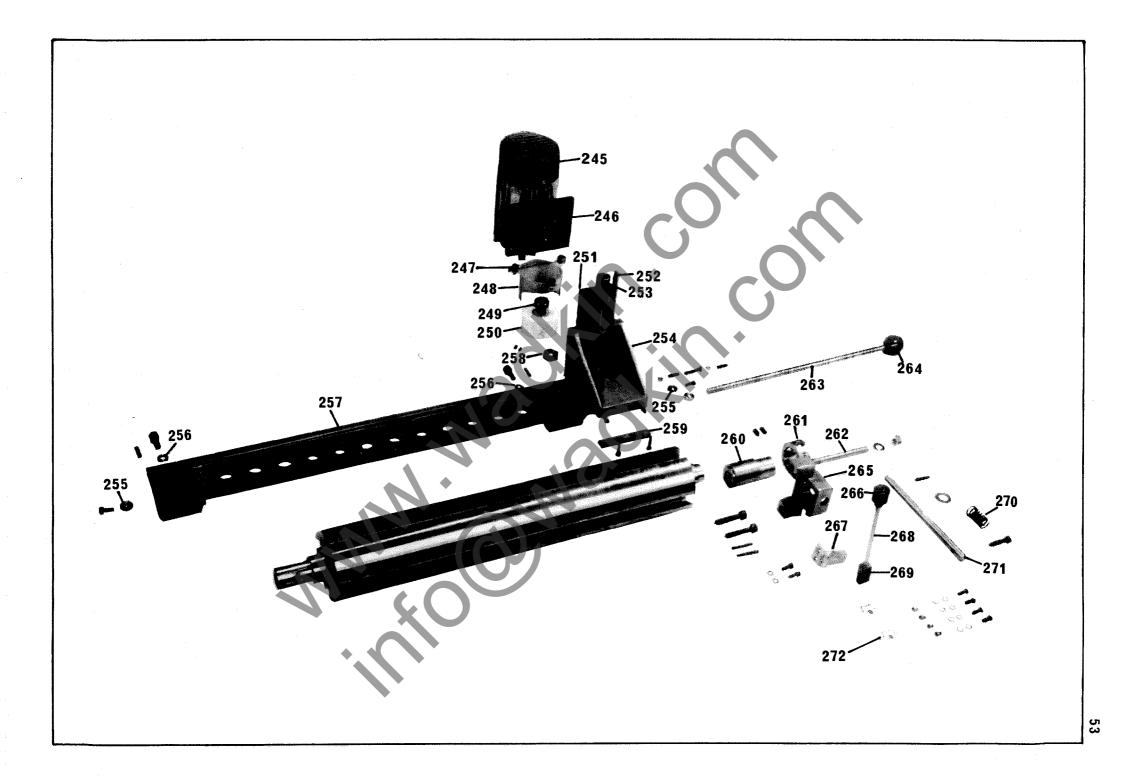
ASSE	EMBLY:-	MAIN	MOTOR
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
230 231 232 233 234 235 236 237 238 239	T5-148 K51-59-101 T5-430 K51-20-106 T6-243 T5-532 K51-04-663 026-22 T5-78	1 1 1 1 1 4 1 1	Motor Mounting Plate 11.104.05.4.1 VS Pulley Key for Drive Pulley 6 x 6 x 35 Long Parallel Key Pulley Adaptor Shaft Motor Pulley ES-28-008 Simplabelt Washers Spacer Main Motor
	NOTE: When HP and	re-orde	e size from motor plate.





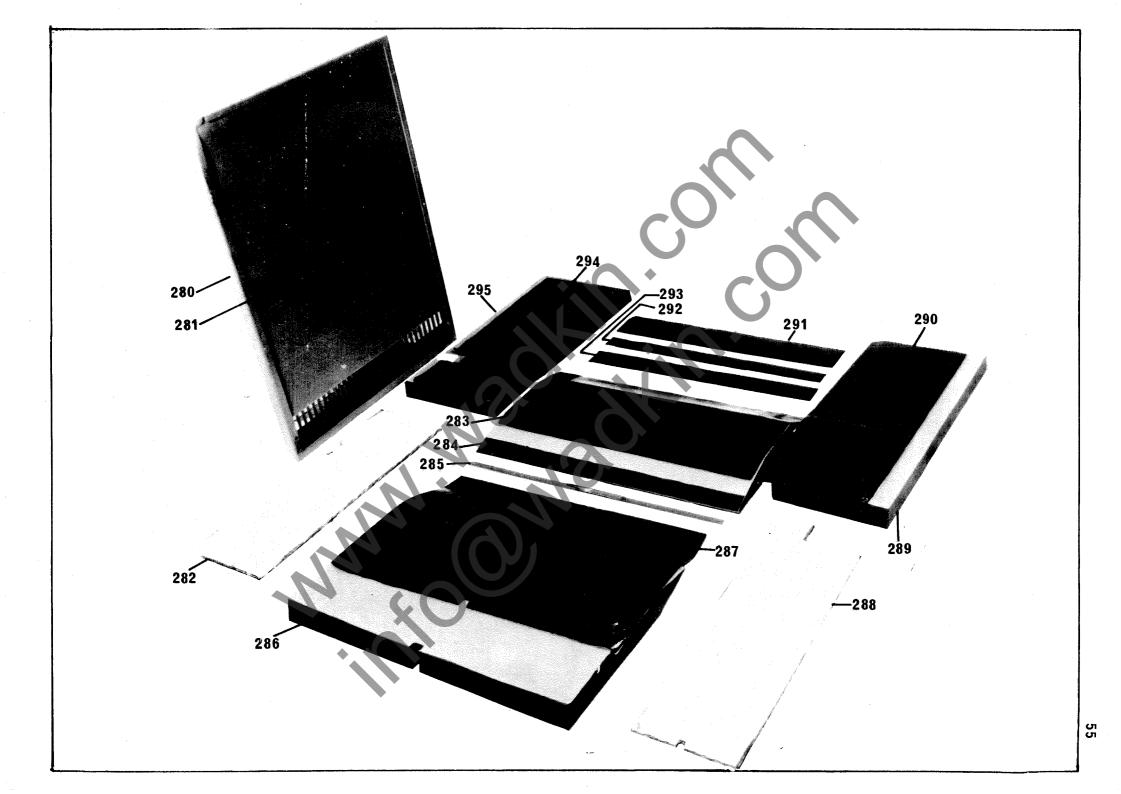


ASSE	MBLY:-	GRINI	DER
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
245 246 247 248 250 251 252 253 255 256 257 258 260 261 263 265 267 268 269 270 271 272	T5-177 T5-402 T5-401 T5-179 K51-02-141 T5-184 T5-155 T5-325 T5-94 T5-369 079-1008 T6-19 T5-242 T5-145 T5-145 T5-145 T5-145 T5-146 T5-182 T5-400 K51-27-153 T5-146 T5-182 T5-499 T5-300 T5-185 K51-73-117 T5-299 T5-303 NOTE: When HP at	1 1 3 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	Grinder Motor Motor Adaptor Plate Spacers for Grinder Guard Guard for Grinder Grinder Wheel Holder Grinder Slide Bracket Depth Adjuster for Grinder Grinder Slide Bracket Washers Washers Grinder Slide M20 x 1.5 Pltch Nut Gib Stirp for Grinder Slide Grinder Extension Grinder Location Ring Extension Stud Pull Rod for Grinder 1.3/4" Dia Ball Knobs Plunger Bracket Handle for Location Location Cam Bracket Cutterblock Location Pivot Arm Cutterblock Location Pivot ETS154 Compression Spring Cutterblock Location Plunger Location Plate



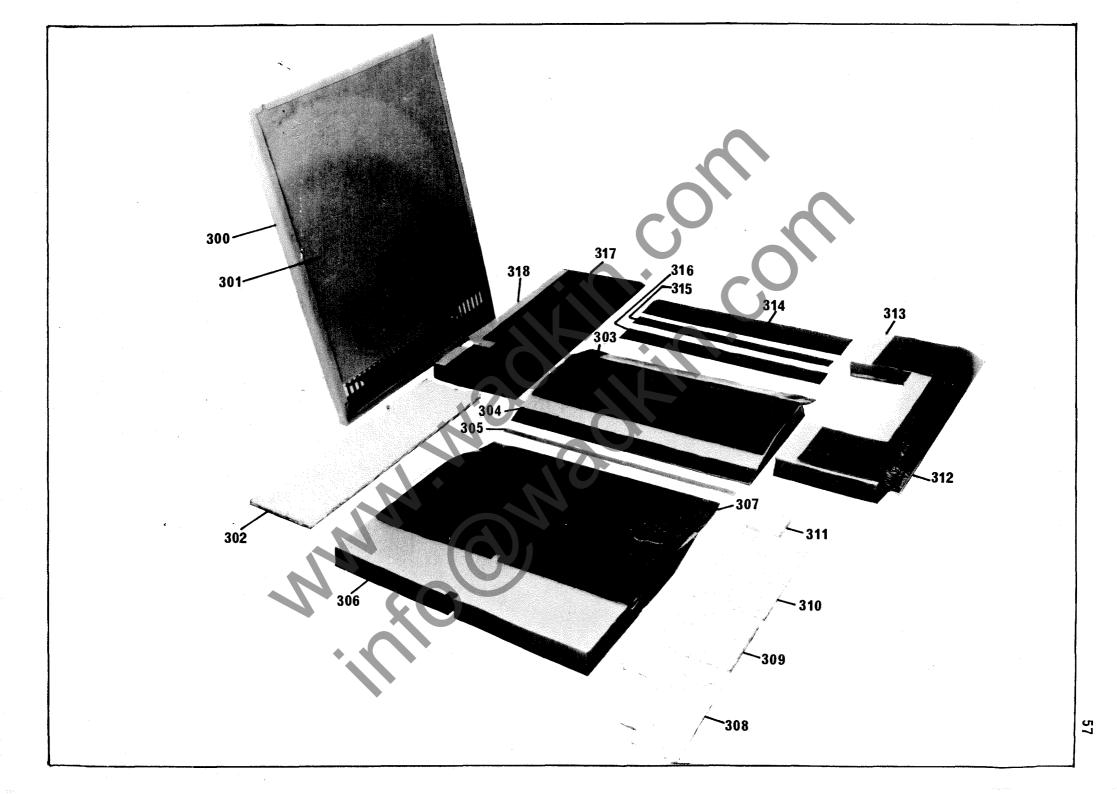


ASSE	MBLY:-	SOUNI	OPROOFING STANDARD MACHINE
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
FIG ITEM 280 281 282 283 284 285 286 287 288 299 290 291 292 293 294 295	PART NO.* T5-413 T5-472 T6-131 T6-128 T6-124 T6-125 T6-125 T6-126 T6-130 T6-132 T6-133 T6-134 T6-127 T6-123	PER	DESCRIPTION Side Covers Side Covers Soundproofing Drive Side Top Cover Soundproofing Back Centre Top Head Soundproofing Plate for Top Hood Soundproofing Front Centre Top Hood Soundproofing Non Drive Side Top Cover Soundproofing Cutfeed Roller Cover Soundproofing L H S Top Hood Soundproofing

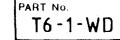


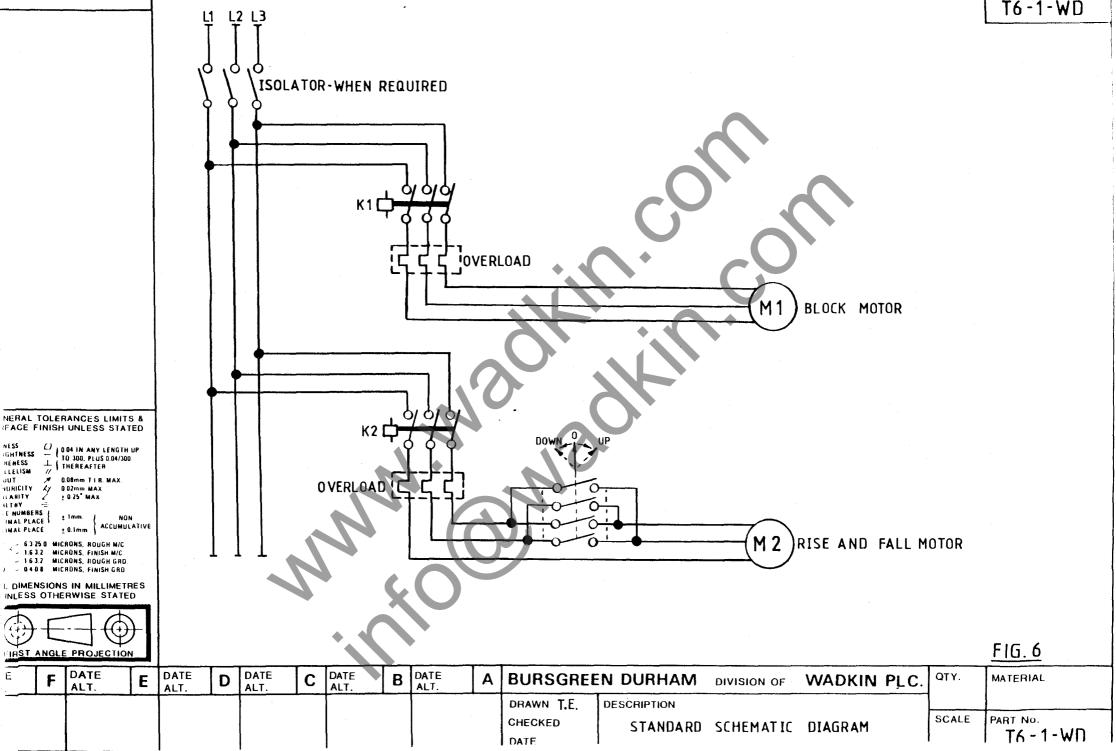


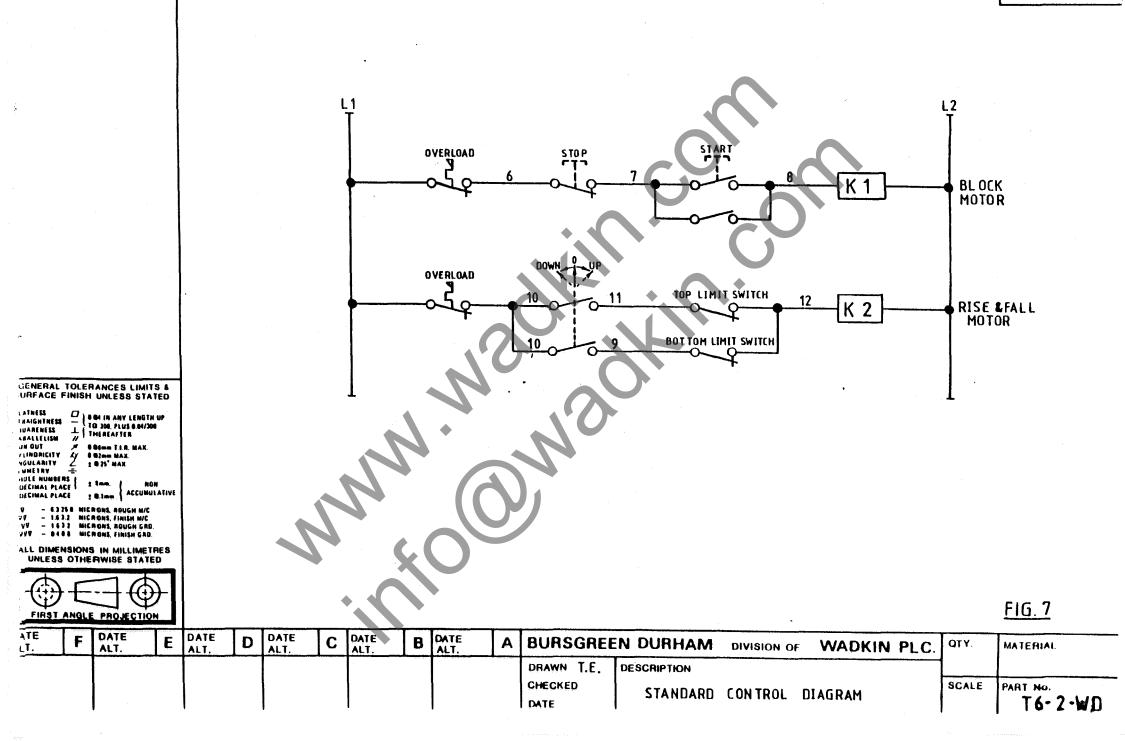
ASSE	EMBLY:-	SOUNI	OPROOFING GRINDER
FIG ITEM	PART NO. *	UNITS PER ASSEMBLY	DESCRIPTION
300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318	T6-122 T6-125 T6-129 T6-135 T6-126 T6-141 T6-142 T6-137 T6-136 T6-132 T6-133 T6-133 T6-134		Side Covers Side Covers Soundproofing Drive Side Top Cover Soundproofing Back Centre Top Head Soundproofing Plate for Top Hood Soundproofing Front Centre Top Hood Soundproofing Non Drive Side Top Cover Soundproofing Outfeed Roller Cover Soundproofing L H S Top Hood Soundproofing











OPERATIONS

